

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Original) An isolated presenilin associated membrane protein (PAMP), or a functional fragment thereof.
2. (Original) The PAMP of claim 1, which is human PAMP (SEQ ID NO: 14).
3. (Currently Amended) The PAMP of claim 1, which is mouse PAMP (SEQ ID NO: 16), *D. melanogaster* (SEQ ID NO: 18), or *C. elegans* PAMP (SEQ ID NO: 12).
4. (Original) The PAMP of claim 1, which is a mutant PAMP.
5. (Original) The mutant PAMP of claim 4 wherein the mutation results in biochemical changes similar to those included by mutations in presenilin-1, presenilin-2, or β -amyloid precursor protein associated with familial Alzheimer's Disease.

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Reply to Restriction Requirement of September 13, 2006

6. (Currently Amended) The mutant PAMP of claim 5, wherein the mutation is to an amino acid residue selected from ~~the group selected from~~ the group consisting of D336, Y337, C230, and both D336 and Y337.

Claims 7-33 (Cancelled).